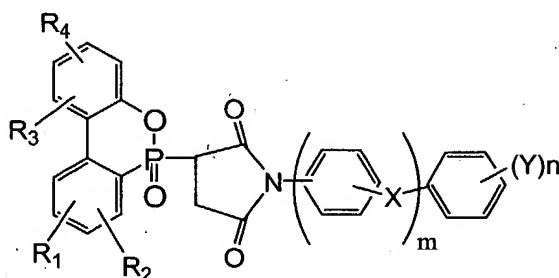


1. A phosphorous-containing compound having the following structure:



wherein R_1 - R_4 independently are H, or C_1 - C_4 alkyl; X is a single bond,

5 $-CH_2-$, $-C(CH_3)_2-$, $-\overset{\overset{O}{\parallel}}{C}-O-$, $-\overset{\overset{O}{\parallel}}{C}-O-$, $-O-$, $-S-$ or $-SO_2-$; Y is H, C_1 - C_4

alkyl, $-OH$, $-NH_2$, $-NO_2$, $-COOH$, $-CHO$ or $-\overset{\overset{O}{\parallel}}{O}CH_2CHCH_2$; m is an integer of 0-2, and n is an integer of 1-4.

2. The compound as claimed in Claim 1, wherein is H.

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3. The compound as claimed in Claim 1, wherein Y is $-OH$.

4. The compound as claimed in Claim 1, wherein Y is $-COOH$.

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5. The compound as claimed in Claim 1, wherein Y is $-\overset{\overset{O}{\parallel}}{O}CH_2CHCH_2$.

6. The compound as claimed in Claim 1, wherein R_1 - R_4 are H.

7. The compound as claimed in Claim 1, wherein X is a single bond.

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8. The compound as claimed in Claim 1, wherein X is $-CH_2-$.

9. The compound as claimed in Claim 1, wherein X is $-C(CH_3)_2-$.

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10. The compound as claimed in Claim 1, wherein m is 0.

11. A flame retardant resin prepared by blending a phosphorous-containing compound as defined in Claim 1 with a resin.

- 5 12. A flame retardant resin prepared by reacting the phosphorous-containing compound as defined in Claim 1 with a resin or a compound.